



IRTG 2678

Functional π -Systems:
Activation, Interaction, Application



6th IRTG Joint Symposium

University of Münster and Nagoya University

Tuesday, May 07th 2024 – Timetable

	Bus transfer
09:00 – 09:05	<i>Opening addresses</i> Prof. Dr. Armido Studer
09:05 – 09:35	<i>Synergistic use of multi-main-group elements for functional pi-electron materials</i> Prof. Dr. Shigehiro Yamaguchi
09:40 – 10:10	<i>The purinergic signaling network: New imaging targets for cancer</i> Prof. Dr. Anna Junker
10:15 – 10:45	<i>Development of molecular synthetic methodologies for creation of novel carbon materials</i> Prof. Akiko Yagi
10:50 – 11:20	<i>Coffee Break</i>
11:20 – 11:50	<i>Chemistry-based mRNA design for the efficient translation</i> Prof. Hiroshi Abe
11:55 – 12:25	<i>Controlled supramolecular polymerization of BODIPY dyes</i> Prof. Dr. Gustavo Fernández
12:30 – 13:00	<i>Toward catalytic control of photoinduced radical reactions</i> Prof. Takashi Ooi
13:05 – 14:35	<i>Lunch Break – Poster session</i>
14:35 – 15:05	<i>Theory and simulation of radiative and nonradiative decay rates for organic dyes</i> Prof. Takeshi Yanai
15:10 – 15:40	<i>Arene Hydrogenation</i> Prof. Dr. Frank Glorius
15:45 – 16:15	<i>Development of artificial biomolecules for functions beyond natural biomolecules</i> Prof. Yuichiro Aiba
16:20 – 16:50	<i>Photocatalytic CO₂ reduction: tailored molecular catalysts of 5d to 3d block elements</i> Prof. Susumu Saito
16:55 – 17:00	<i>Closing remarks</i> Prof. Dr. Shigehiro Yamaguchi
17:00 – 18:00	Bus transfer (SoN – Ratskeller)
From 18:15	Symposiums Dinner



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1	Lukas Paetow	Excited State Dipole Moments with Δ SCF Methods: A Benchmark
2	Saeko Yamada	Impact of Seeding Method on Aggregate Morphologies and Chiroptical Properties in Aryleneethynylene π -Electron Systems
3	Julian Kürschner	Micellar Effects in Photocatalysis
4	Shogo Mori	Artificial photosynthesis directed toward organic synthesis
5	Gesa Seidler	Borylative Transition Metal-Free Couplings of Vinyl Iodides with Various Nucleophiles, Alkenes or Alkynes
6	Shinpei Kusaka	Dynamic topochemical [2+2] photocycloaddition reaction in flexible metal-organic frameworks
7	Fritz Paulus	Visible-light Photocatalyzed peri-[3+2] Cycloaddition of Azaarenes
8	Dr. Ayaka Ueda	Short peptide-based gelator with polycyclic aromatic hydrocarbon
9	Hoàn Quân Trân	Calamitic Liquid Crystals for Reversible Light-modulated Phase Regulation based on Arylazopyrazole Photoswitches
10	Taiga Ando	Photocatalytic Carbyne Reactivity of Phosphorus Ylides for Three-Component Formal Cycloaddition
11	Till Drennhaus	Introducing Cycloparaazines: Revealing the Properties of Selectively Nitrogen-doped Carbon Nanorings
12	Manami Hayashi	Development and application of an accurate excited state theory for large-scale complex systems: PNO-QD-NEVPT2 Method
13	Elena Sophia Horst	Verdazyl Radicals as Tunable Redox-Active Molecules for Symmetric Redox Flow Batteries
14	Yoshifumi Toyama	Mechanochemical Anionic Activation of Polycyclic Aromatic Compounds and Synthesis of Arylated Aromatic Compounds
15	Lena Lezius	Radical cascade annulation using aryl isonitriles: Synthesis and investigation of quinoline-derived benzophosphole oxides
16	Kosuke Fukuchi	Characterization And Synthetic Consideration Of Branched-Cap Circular mRNA For Pharmaceutical Application
17	Lukas Entgelmeier	Unlocking Photocatalytic Activity of Acridinium Salts by Anion-Binding Co-Catalysis
18	Chihaya Murata	Polyester degradation catalyzed by iridium complex with hydroxy groups
19	Tabea Rohlf	Visible-Light-Mediated Selective Allylic C–H Oxygenation of Cycloalkenes
20	Shintaro Hasegawa	Structural control over co-aggregates of boron/nitrogen-containing π -conjugated molecules using seeded supramolecular polymerization
21	Bayram Terzi	Clickable and Photocleavable mRNA 5' Cap Analogs
22	Nguyen, Viet Quoc	Construction of Artificial Metalloproteins for Antibacterial Applications by Modifying a Bacterial Hemophore
23	Tobias Tischer	Controlled self-assembly of BODIPY dyes by variation of the Boron substituents
24	Yuki Uchida	Regio-divergent [3+2] Cycloaddition of gem-Difluorocyclopropane Derivatives Based on the Control of Bidirectional Bond Cleavage
25	Timo Stünkel	Regio- and Enantioselective Intermolecular Aminofluorination of Alkenes via Iodine(I)/Iodine(III) Catalysis
26	Fritz Deufel	Charge-controlled Pd catalysis enables the meta-C-H-activation and olefination of arenes



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Wednesday, May 08th 2024 – Timetable

	Bus transfer (Hotel – Organic Chemistry Institute)
10:00 – 10:30	Discussion (D1)
10:30 – 11:00	Discussion (D2)
11:00 – 11:30	Discussion (D3)
11:30 – 12:00	Discussion (D4)
12:00 – 13:00	<i>Lunch Break</i>
13:00 – 13:30	Tour OC/BC-I
13:30 – 14:00	Discussion (D5)
14:00 – 14:30	Discussion (D6)
14:30 – 15:00	Discussion (D7)
15:00 – 15:30	<i>Break</i>
15:30 – 16:00	Discussion (D8)
16:00 – 16:30	Discussion (D9)
16:30 – 17:00	Discussion (D10)
From 17:00	Barbecue (in front of OC/BC-I)